BY ORDER OF THE COMMANDER
AIR FORCE MATERIEL COMMAND

AIR FORCE INSTRUCTION 91-205

AIR FORCE MATERIEL COMMAND
Supplement 1

23 FEBRUARY 1995

Safety

NONNUCLEAR MUNITIONS SAFETY BOARD

HOLDOVER

The basic publication has been revised; impact on supplemental information is under review by the OPR. Users should follow supplemental information that remains unaffected.

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

NOTICE: This publication is available digitally on the HQ AFMC WWW site at: https://www.afmc-mil.wpafb.af.mil/pdl/pubs.htm

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OPR: HQ AFMC/SEW (William E. Rieder) Certified by: HQ AFMC/SE (Johnny S. Davis)
Supersedes AFR 127-16/AFMCS1, 5 Oct 90 and Pages: 4
AFR 127-16/AFMCS1, 11 Feb 91 Distribution: F

This supplement applies to all AFMC organizations and Air Force associate units without full-time safety staffs located on AFMC installations. It does not apply to the Air National Guard or US Air Force Reserve units and members.

SUMMARY OF REVISIONS

This is the initial supplement to AFI 91-205. It incorporates the new publications formats and tailors the requirements of AFI 91-205 to AFMC operations.

AFI 91-205, 30 November 1993, is supplemented as follows:

1.2.1. (Added) Ogden Air Logistics Center (OO-ALC/LIWS) furnishes a system safety qualified individual as an advisor to attend all Nonnuclear Munitions Safety Board (NNMSB) meetings.

1.2.2. (Added) Other ALCs and Product Centers should furnish technical advisors when items that are, or will be, managed/developed by their centers are presented or discussed at NNMSB meetings. AFDTC/SES will include these technical advisors on message distribution.

1.2.3. (Added) The OO-ALC/LIWS advisor need not attend special NNMSB meetings unless specifically requested by AFMC/SEW.

2.6. Contact AFMC/SEW to obtain data submission requirements for MAJCOM approval of locally manufactured equipment (LME).

7.1. AFMC/SE designates a primary and alternate NNMSB member.

7.2. AFDTC/SES will be the engineering support function responsible to conduct NNMSB studies and analyses.

7.2.1. (Added) AFDTC/SES will set up the necessary operating procedures to ensure the timely acquisition of supporting information and the completion of Technical Munitions Safety Studies (TMSS), Munitions Safety Analyses (MSA) and Test Hazard Assessment Reviews (THAR) for presentation to the NNMSB. A copy of these procedures will be provided to AFMC/SEW.

7.2.1.1. The TMSS is a comprehensive safety study of a nonnuclear munition used to document safety engineering evaluations and to submit findings for NNMSB review. The TMSS must contain sufficient information to fully support the certification recommendations formulated by the NNMSB.

7.2.1.2. The MSA is less comprehensive than the TMSS and is typically prepared for modified munitions and munitions support equipment that have minor impact on safety. Like the TMSS, the MSA must fully support NNMSB recommendations.

7.2.1.3. The THAR is an assessment that contains a physical and functional description of the item along with sufficient analysis to ensure the item is safe for use within a controlled test environment. The THAR is applicable to live airborne testing of bombs, warheads, cluster bomb units, projectiles, rocket motors, flares, bursting charges and similar items containing live energetic material. It also includes initiating devices such as fuzes, rocket motor arm/fire devices, flare safety and ignition devices, and devices having an influence on initiation such as retarders, launchers and suspension racks.

7.2.2. (Added) AFDTC/SES will be the center of expertise in providing guidance and direction to non-AFMC organizations, when requested, concerning preparation of studies/reviews for presentation to the Board.

7.2.3. (Added) Each ALC/Product Center weapon safety office will act as the point of contact for NNMSB activities for their center OO-ALC/LIWS will act as the POC for OO-ALC in lieu of OO-ALC/SEW.

7.2.3.1. The Center SEW offices and OO-ALC/LIWS will provide support to AFDTC/SES for Board activities as outlined in the procedures referenced in paragraph 7.2.1.

7.2.3.2. Each ALC will ensure a system is set up for the review of information concerning a product improvement or modification, Engineering Change proposal (ECP), Organic Change Proposal (OCP), and Value Engineering Change Proposal (VECP) on ALC-assigned nonnuclear munitions, associated munitions packaging, and support equipment or systems. For those modifications with a form, fit or function impact and/or safety involvement, contact AFDTC/SES regarding guidance concerning NNMSB requirements.

8. AFDTC/SE designates an Executive Secretary for the NNMSB.

8.8. (Added) The Executive Secretary will ensure that inert hardware is used during briefings to the NNMSB whenever possible and that visual aids such as vu-graphs, projectors, etc, will be utilized to give descriptive and detailed data.

10. (Added) General Information: AFMC organizations will not contract for or introduce into the USAF inventory, new, modified, or redesigned munitions or support and test equipment until they have been recommended for certification by the NNMSB and approved by Air Staff.

10.2. Local purchase of commercial nonnuclear munitions is prohibited unless they are stock listed or approved for local purchase by HQ AFMC or OO-ALC as appropriate. OO-ALC/LIWS will grant

approval for local purchase of small arms ammunition, but requests for local purchase of other munitions must be forwarded through OO-ALC/LIWS to AFMC/SEW for approval. OO-ALC/LIWS will develop local proce-dures for handling emergency requirements.

10.3. Flight tests of modified live munitions items or uncertified initiating devices/systems will not be conducted until the NNMSB has approved a THAR. Surveillance tests of inventory items do not require a THAR. Contact AFDTC/SES for information regard-ing the content and format for submitting a THAR.

10.4. AFDTC/SES will make the determination as to whether a TMSS or MSA is required when a munitions item is modified or when a safety study is requested by a Board member.

Attachment 2 (Added)

NONNUCLEAR MUNITIONS CATEGORIES

The following nonnuclear munitions systems, subsystems, components, and related equipment items are within the purview of the NNMSB as it carries out its mission.

1. Conventional explosive devices including all types of warheads, projectiles, bombs, mines, and grenades, and their training configurations. Nuclear weapon training shapes containing conventional explosives are included in this latter category.

2. Conventional missiles and thrust-augmented munitions intended for air-to-air, air-to-ground, air-to-space, ground-to-ground, ground-to-air, ground-to-space operations.

3. Aircraft suspension and release systems (for example, racks, launchers, rails), dispensers, packaging devices used to contain or disperse conventional explosive devices, or devices used as the direct launching platform for a complete nonnuclear munition system.

4. Components used to safe, arm, and/or fire conventional explosive devices or propulsion devices, all fuzes and explosive or pyrotechnic transfer elements, and all components of a munition used to detect a target and issue signals to initiate a warhead, bomb, etc.

5. Components integral to a nonnuclear munitions system used to direct the munition from the launching platform to a target, including aerodynamic control surfaces, thrust vectoring devices, retardation devices, associated control logic, seekers and stored energy sources.

6. Igniters and initiators used in igniting or directing the initiation of conventional explosive and pyrotechnic devices, fuzes, propulsion devices, stored energy sources, or dispersal and suspension devices.

7. Aircraft guns and associated control, safing, and firing mechanisms, personal small arms weapons, and all gun-fired ammunition.

8. Rocket motors and engines that produce thrust by the release of energy and are used to propel any nonnuclear munition or component thereof.

9. Flares and markers, pyrotechnics, photoflash devices, explosive dispensers or decoy devices, explosive simulators, demolition charges, explosive flight termination systems for missile and target drones, explosive ordnance disposal (EOD) equipment using explosives or controlling the initiation of explosives, chemical agents and associated dispensers, training and scoring items containing explosives or pyrotechnics, targets that contain hazardous components, and other munition-related explosive devices.

10. Handling, storage, test, maintenance, and transport equipment for use with, or in support of, nonnuclear munitions, including certain locally manufactured equipment as defined in AFI 91-205, paragraph 2.6.

PAUL M. GUTTMAN, Col, USAF
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